

Fig. 1

58 MSK-RSNRKFVLT----WYMLILFTPHISLASVNLNDHN-----SMYVGIGQYKPARQHLSKLLIKESAA----N----
1 .----YAKVFILIC..LV.SL.F.I.N..---FLKDNIGHF.I.G..---GVPRFRNF.VTNNNIRELMSSDEEC
2 .----Q.LYISFFILSG.L--L.KYVFC--MHN>NNNIDGS..T.K.QLTTP.FKNFY..TDF..DTQEPA
3 .----YMYNKKHYCYIVTYVITLFF.LL.IE..SALI--G.VERKDLRVS.T..SS..SIF.FRNFQ..HP..K----
4 .----TKKEN..NV--ILTF.LFLF.LK.FTYA--N..-NTITQKVGL.ISG..SIP.FRNFSVE.ND..K----
5 .----S-KK..ITIGTVLAS.LS.LSIE.FSAIN--..HTGNNTSGI.ITG..R.GVS.F.NFSV..TNV..D----
6 .----SAKK.LFIGSVL.C.VSYL.TK..SNLN--NI-NNNTKCTGL..SG..TVS.F.NFSL..TYT..D----
7 .----S-KNN.ITIGATLIML--L.N..FPETI--N..-NTD-KLSQL.ISG..GIS.F..FSV..IYN..D----
8 .----NMRKS.FLIGASLLASL..SEA.STGNY--S.-HTYFK-PRL.ISG..R.GVS.F..FSV..TNV..D----
9 .----NKKN..I-IATAL..YL.SL.SV.FSE.T..NS-SIKKH-SGL.ISG..SVSVF..SFS..TNT..I----
10 .----NHRKSMLEFTIGTALI-SL.NV.FSGII--N..-NAN-N-LGI.ISG..SVSVF..NFSV..TNF..T----
11 .----KKRNQ.ITISTIL.-CL.SLSNA..SNTT--NS-STKKQ-FGL..SG..SVSIF..NFSV..TNF..P----
12 .----NKKN..FTISTAM.-CL.LL.G..FSETI--N..-SAKKO-PGL.ISG..SVSVF..NFSV..TNV..P----
13 .----NYK.IF-VSSALIS.MSIL.YQ.F.DPVTSNDTGINDSREGF.ISVK.N.SIS.FR.FSAE.API..GNTSI
14 .----NCK..F-ITTAIALPMS.L.G.L.SEPVQ.DSVS---GNF.ISKG.M.SAS.FGVFSA..EKNP
15 .----NCE..F-ITTAITL.MS.L.G..SDPVQ.D.IS---GNF.ISKG.M.SAS.FGVFSA..ERNT
16 .----NCK..F-ITTAI..S.MS.L.G..FSDPVQGD.IS---GNF.ISKG.M.SAS.FGMFSA..EKNP
17 .----NCK..F-ITTTL.S.MS.L.G..FSDAVQND.VG---GNF.ISKG.V.SVS.FGVFSA.Q..ERNT
18 .----NYK.VF-ITSALIS..SSL.GV.FSDPA-GSGIN---GNF.ISKG.M.SAS.FGVFSA..ERNT
19 .----NYK..-VGVALAT.LS.L.DN.FSDA---NVPEGRKGF..T..VGVPNF.NFSAE.TL..PGL
20 .----RYKDFSN--NIDVIIGT.VG---CFSGS.DVSD-SLNSRLKPVFL..S..LSAPLF.SFS.G.TYR..INGVK-
21

Fig. 2A

Fig. 2B

1 TVEVFGLIKDKDLLLITGIKDNT-----NENNIKYNPYENNRNLGFSGIFGGYYNNKFRIESELSYETFHIKNNNG 127
2 RSTIPHMQSVQAGT. PPEALEELADGKFPEGYLY. T.P...T.KK.L..AG.VI..S-TTH..V.V.AF.DK.NLTAPA 148
3 -----I. A.ITA. TKFDTL.E. FSFSPL-----HQTDS.KS-.Q.DL..IGLSV.L-FV.S...F.GA.KN.NT.RLA 128
4 -----SSEEFFKKIKANJN. ILKSNA-----LQFQD.TTS..TI..-FS.GI.L.A.GC.QE.NV..SN 130
5 V.DLI..TT.VTY.IT..-EHILRDNT-----K..TH.IAKF..FIN..SAI..SGQGP.L.I.S..GD.DV..YK 131
6 .IQLV.Y..SASSI-----DPNTYS-----QGP.TVTFQD.AAS..AI..S.PESS.L.L.G...K.DV.DPK 130
7 .K.LL..A..IKSIT-----DITTNK-----K..P..TKFQD.AVS..AAV..ISQDSP.V.V.W..E.DV..P. 132
8 NIQLI..RNAISTS-----LNINT-----D..P.KVTFO..ITS..AI..SDPTGA.F.L.G...E.DVTDP. 128
9 .TQLV..ISVIG-----NSNNTITYT-----FP.IAEFQD.AIS..AI..L.SE..V.A..E.DV..PE 133
10 .KILLIA.....INSLEVNAVASQGISHPG-----T.P.IAAF.D.AFN.N.AI..-ITEGL..I.G...E.DA..P. 135
11 .QQLVA...IDSVDLISTNA.SGINNPQ-----T.P.I.KFQD.AAS..AL.EF.ARGL.L.M.G...E.DV..P. 136
12 .KYLAA...INSTVFDDSYTAGISYPL-----STP.IAVFQD.ISN.N.AI..TFVEGP..I.G...E.DV.DP. 137
13 .KQLIA...INSTVAVGSNATTGISNPG-----T.P.TAEFQD.VAN.N.AV..SFPSDSL..I.GFH.K.DV..P. 137
14 .KK...-----GD.AQSANFNRT-----DPALEFQN---LIS...SI..AM-DGP..L..AA.QK.DA..PD 135
15 .ALY..Q.WNG-VSASSHADAFMNK-----GYSF..EN---PF..A.AI..SM-GGP..F.V...DV..Q. 130
16 .G...IEQ.WDRCVISRTTLSDFITVP-----YSF..EN---LFS..A.AI..SM-DGP..L.V..A.DV..Q. 131
17 .ALY..Q.WEG-ISSSSSHNDNHFMNK-----GYSF..EN---PF..A.AI..SM-GGP.V.F.V...DV..Q. 130
18 .IG...Q.WDGSTISKNSPENTFNVP-----YSF..EN---PF..A.AV..LM-NGP..L.M...DV..Q. 131
19 .G...QNWWDGSIAISNSSP.DVFTVSS-----YSF..EN---PF..A.AI..SM-DGP..L.V...DV..Q. 130
20 .KSI.A.GL...-KSS.S.HAGFTQA-----Y.PT.AS...-FA..G.VI..V-ND..V.F.GA..N.EPERQ- 123
21 .DR.V...S...-I..DAD.AMKDFMNF-----SEE.V.K.D..IF.L.F...SFRN-L.V.L.G..KK.DVIDTR 136

Fig. 2C

1	--YKRI-DCEKHFA LAKEISGGSNNPANNK--	189
2	G-.LH-KNFYEY...TMDTKHPHQSAEDK--	213
3	-R..S-K.GY.Y..IPRKSEH.FLDNT--	188
4	N-SLI.SSN-.YHSRIHDEN--	183
5	N-.A-VQ.VNRY...VR.KN.SNFS.KPHETSQPSDSNPKKSF--	207
6	D-.S-AK.AFRF...RNT.T--TV.DAQ.--	191
7	N-.V-VSEAFRYI...RG.DNLQKY.ET.--	195
8	D-CL-.K.TYRY...RNP.--SS.TS.N--	189
9	G--SAT.AYRY...RAMD.T--	197
10	G-.G-LN.AFRY...RDMESNKFO.KAQSSQ--	203
11	G-.TKVK.AYRY...R.MQS.OTC.KHKETS--GIQPHGTY-HTVMR.D.V.IS.VI.	210
12	R-.TE.Q.AYRY...RD.DSIPTS.K.RTSHD--GNSSYKVY-HTVMK.E.L.II.IMV.G.	212
13	G-.TQVK.AYRY...RDLKD.FFE.KAEDTG--	205
14	NNDTNSG.YY.Y.G.SR.DAIADK--	195
15	GN..NDAH--RYC.DRKA.ST---N.TASH--	191
16	NN..NEAH--RYY.SHLLGTETQIDGAGSA--	195
17	NN..NDAH--RYC.GQQDNS.--IPKTSK--	191
18	NN..NDAH--.YY.TH--NS.GKLSNAGDK--	193
19	NN..NEAH--RYC.SH--NSAADMSSASNN--	192
20	-W.PEGGESH.F...SR.STVQD.--K-	182
21	NHL--VDNNYR.I..VR--	193
	SNPPTLYD.FV.K.D.VEFY.TIL.I..FAVDT--.VPF..V	

Fig. 2D

1	GFGVDTIDFLSKYTTKFSYQGKLGA	SYTVPQSVFIEGYYHGLFGKKFEKI	PVNYPCDYPSPTPP--NSKPHVHTTALA	267
2	.V.GNF...DQVSF..A..A.V.I..F..NIAF..D.SF..HNNQ.SDS..V..	..V..	SSSGFP.IS.	280
3	.V.G.F.EIFDVMRI..A..V.V..PITSKLILS.N.Q..KVI.N..LL..YQ.VELKRLVTNKTSKDIDODV..SL	268
4	.I.E.LYGLFNTIH.FLA..V.M..LINNNILL.SDI..KVM.NR.KNLY..	..	MQYYVAD--PNISEETIPI..	254
5	.V.G.F.E.FEVMI..AC.S.V.I.PI..SITI.ADAH..KVINN..NNLH..	..	VKYSYE--LKNNSPTI.S.T.	278
6	.I.E.F.E.FDTLHI.LA..I..YFF.KIN..AG..RVI.N..KLN..	..	VNHVVT--PDEFPKA.S.V.	262
7	.G.I.E.F.AVSF..A..V.I.PLFSNMII.AD..KVI.N..NNLN..	..	VQHVVS--LNSHPKS.F.V.	266
8	.V.G.F.E.FDALHI.LA..IN.HL.T.A..D..KVI.NQ.NNLN..	..	VQHVAS--TDFGP--VY.V.	258
9	.I.G.F.E.FNDLHV..AH..V.I..SI..E..L..LN..KVI.NR.KNLH..	..	VQHVSD--L.DAPKF.S.V.	268
10	.I..A.E.FDALHI.LACPS..IT.QL.YNI.L.AV.F..QVI.NQ.RNLN..	..	VQHVAE--LNDAPKV.S.V.	274
11	.M.I.A.Q.FDSLHI..AH.S..IT.PL.SN.HL.ADS..KVI.N..KNLR..	..	VQHVYE--LQQVPKV.S.V.	281
12	.I..NA.E.FDALHV..AC..IT.PL.SN.L.AG..QVM.NQ.KNLN..	..	VQHVAE--LNDAPKV.S.V.	283
13	.M.INA.E.FDALHV..A..I..QLFTK.NL.LD..QVI.NQ.KNLN..	..	VNHVYT--LKESPKV.S.V.	276
14	.V.A.L.NVFKDNL..I..I..PIT.E.A..G..V.I.NN.N..	..	IT..VVL--EGA.QTS--V	266
15	.V.T.L.SMFEAINP.I..L..SIN.EA..VG.HF.KVI.NE.RD.ST..	..	LKAFA--P.SAATPDL.TV	263
16	.I.I.LVSMFEAINP.I..L..PI..EA..G.HF.KVI.NE.RD..T..	..	MI.SES--ALAGKGNYP.IV	267
17	.V.T.L.SMFEATNP.I..L..SIN.EA..G.HF.KVI.NE.RD..T..	..	LKAFTV--S.--ATPDL.IV	261
18	.V.T.L.SMFEAINP.I..L..SI..EA..VG.HF.KVI.NE.RD..A..	..	MISTS--TLTGN--F-TIV	263
19	.I.T.LVSMFEATNP.I..L..SI..EA..G.HF.KVI.NE.RD..T..	..	GS--TLAGKGNYP.IV	264
20	.V.A.Y.K..GISILP..V.F.VN.P..VN.ML.GG..KVI.NRY.RVEI--	..	AYHPAT--LTNVPKT.S.S.	254
21	.I.E.I.KIFDSIRF.P.FNS..IN.LM.QDMLL.FDV..RVV.NEYNN..Q..	..	V--SLPNPLNISTA.	262

Fig. 2E

1	MLSIGYYGGSIGIKFI--L	284	(SEQ ID NO. 1)
2	KFNANFLTS...R...S	297	(SEQ ID NO. 2)
3	T.NLEHFSSE..LS..F	285	(SEQ ID NO. 3)
4	K.D..F.SE...R.MEN	272	(SEQ ID NO. 4)
5	K.N.E.F..EV.MR..F	295	(SEQ ID NO. 5)
6	T.NVA.F..EA.V..TF	279	(SEQ ID NO. 6)
7	T.NVE.F.SEF.L...F	283	(SEQ ID NO. 7)
8	T.N..F..E..RLTF	275	(SEQ ID NO. 8)
9	T.NV..F..E..VR..F	285	(SEQ ID NO. 9)
10	T.NV..F.AEV.VR..F	291	(SEQ ID NO. 10)
11	T.D..F..EV.VR..L	298	(SEQ ID NO. 11)
12	T.D..F..E..ARL.F	300	(SEQ ID NO. 12)
13	T.D.A.F..EV..R.TF	293	(SEQ ID NO. 13)
14	TIDT..F..EV.VR.TF	283	(SEQ ID NO. 14)
15	T..VCHF..VEL.GR.NF	280	(SEQ ID NO. 15)
16	T.DVF.F.IEL.GR.NFQ.	286	(SEQ ID NO. 16)
17	T..VCHF..IEL.GR.NF	278	(SEQ ID NO. 17)
18	T..VCHF..VEL.GR.NF	280	(SEQ ID NO. 18)
19	I.DVCHF..IEL.GR.AF	281	(SEQ ID NO. 19)
20	T.DTD.F.WEV.MR.T--.	271	(SEQ ID NO. 20)
21	K.DME.F.AE...-VF-V	279	(SEQ ID NO. 21)

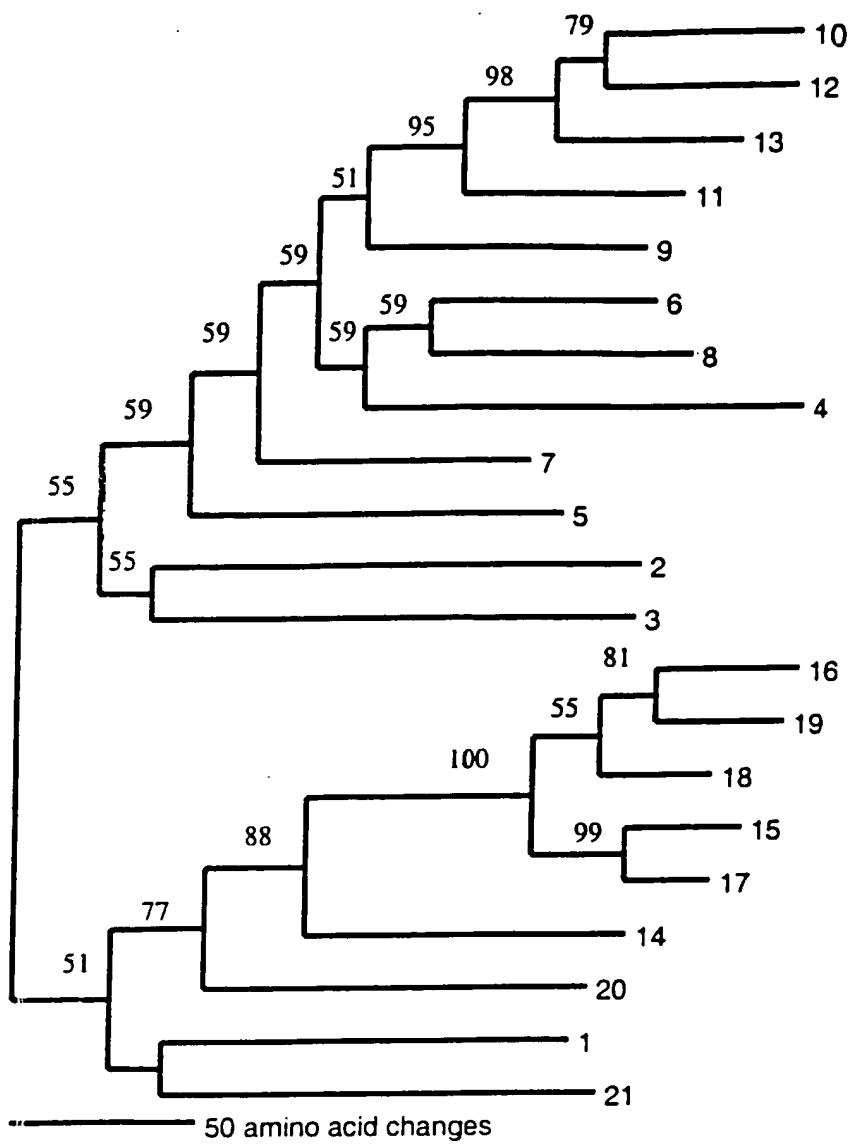


Fig. 3

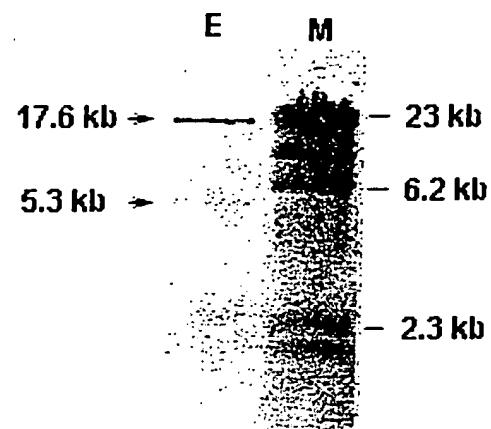


Fig. 4

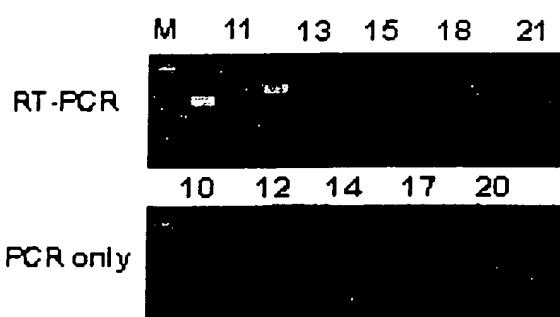


Fig. 5